

RECLAMATION

Managing Water in the West



Judge Francis Carr Powerhouse (formerly Clear Creek Powerplant)

The Judge Francis Carr Powerhouse (formerly Clear Creek Powerplant) is a Shasta/Trinity River Division of the Central Valley Project located on Clear Creek at the outlet of the Clear Creek Tunnel on the northwestern extremity of Whiskeytown Lake. It is at the downstream end of the Clear Creek Tunnel, which transports water from Lewiston Reservoir to Whiskeytown Reservoir.

The power facilities consist of an intake structure located in Lewiston Reservoir, a 10.7-mile-long, 7.5-foot-diameter tunnel, a powerplant bypass to Clear Creek, a surge tank and basin, two penstocks and valve structure house and two generators with Francis turbines.

When the Judge Francis Carr Powerhouse began operation in 1963, the generating capacity was 143,680 kilowatts. The units were uprated in 1984 to their current capacity of 154,400 kW. The average American home consumes about 10,000 kilowatts in a year. Judge Francis Carr Powerhouse is a peaking plant for which power is first dedicated to meeting the energy requirements of the project facilities. The remaining energy is marketed to various preference customers in northern California. At full capacity, Judge Francis Carr Powerhouse can produce enough power to serve the electrical needs of approximately 120,000 homes.

For more information on Judge Francis Carr Powerhouse, please visit:

http://www.usbr.gov/projects/Project.jsp?proj_Name=Shasta/Trinity River Division Project